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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER 100997-1P US

U.S. APPLICATION NO./(if known, See 37 CFR 1.5)

CONCERNING A SUBIVIISSIO	Not yet assigned								
INTERNATIONAL APPLICATION NO. PCT/GB2004/002828	INTERNATIONAL FILING DATE June 30, 2004	PRIORITY DATE CLAIMED June 30, 2003							
TITLE OF INVENTION ISOTHERMAL TITRATION CALORIMETRY ASSAYS									
APPLICANT(S) FOR DO/EO/US Ann Eakin; Stewart Lindsay Fisher; Irene Karantzeni; Gunther Kern									
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.									
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.									
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
4. The US has been elected (Article 31).									
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
a. is attached hereto (required only if not communicated by the International Bureau).									
b. X has been communicated by	b. $\overline{f X}$ has been communicated by the International Bureau.								
c. is not required, as the applic	c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6. An English language translation of the	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
a. is attached hereto.	a. is attached hereto.								
	b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7. Amendments to the claims of the Inte	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
a. are attached hereto (requir	a. are attached hereto (required only if not communicated by the International Bureau).								
b. have been communicated	b. have been communicated by the International Bureau.								
c. have not been made; howe	c. have not been made; however, the time limit for making such amendments has NOT expired.								
d. X have not been made and v	d. X have not been made and will not be made.								
8. An English language translation of th	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
9. An oath or declaration of the inventor	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10. An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
Items 11 to 20 below concern document(s) or information included:									
11. An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.								
12. An assignment document for recording	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
13. A preliminary amendment.	A preliminary amendment.								
14. X An Application Data Sheet under 37 (An Application Data Sheet under 37 CFR 1.76.								
15. A substitute specification.	A substitute specification.								
16. A power of attorney and/or change of	A power of attorney and/or change of address letter.								
17. A computer-readable form of the sequ	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.								
18. A second copy of the published Interr	A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
19. A second copy of the English languag	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).								
20 X Other items or information. Internat	Other items or information: International Search Report (4 pages)								

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE equired to respond to a collection of information unless it displays a valid OMB control number.

The following fees have been submitted The following fees have been submitted 22.	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NUMBER				
The following fees have been submitted 21. Separation for the international preferring yearning that the service of the servi	0.5. AT LIGHT	U.S. APPLICATION NO. (IT KNOWN, SEE 3/2 PATIS) INTERNATIONAL APPLICATION NO.							
21. Search reational fee. \$300.00 22. Search sections of international region prepared by USPTO and all claims satisfy provisions of file international peripherinary examination report prepared by USPTO and all claims satisfy provisions of All other situations. \$200 22. Search tes \$200 23. Search tes \$200 24. Other situations absenting Authority. \$200 25. International Search Report prepared and provided to the Office. \$400 26. International Search Report prepared and provided to the Office. \$400 27. Other Search Report prepared and provided to the Office. \$400 28. Search Report prepared and provided to the Office. \$400 29. Other situations. \$400 20. TOTAL OF 21,22 and 23 = \$900.00 20. Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program isting filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction filtered. 20. Total Sheets									
22. [A Examination fee II International preliminary examination report prepared by USPTO and all claims satisfy provisions of POT Andes 3(1)(4),		•			2200	•	1		
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Articles 3(1)(-4)	21. [X] Basi	c national fee			\$300	300.00			
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority	If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)				\$ 200.00				
Additional fee for specification and drawings filed in an electronic medium) The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) X \$250 \$ 0.00 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). CLAIMS NUMBER FILED NUMBER EXTRA RATE \$ CLAIMS NUMBER FILED NUMBER	Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority								
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Total claims 25 - 20 = 5	Surcharge of \$13	30.00 for furnishing	g the oath or dec	laration later than 30 months fr		\$			
Independent claims 6	CLAIMS	NUME	ER FILED	NUMBER EXTRA	RATE	\$			
Independent claims 6 - 3 = 3	Total claims		25 - 20 =	5	× \$50	\$ 250.00			
MULTIPLE DEPENDENT CLAIM(S) (if applicable) TOTAL OF ABOVE CALCULATIONS = \$850.00 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. SUBTOTAL = \$0.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$1,750.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property	Independent clair	ms			x \$200				
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a. A check in the amount of \$						Amount to be	1		
b. X Please charge my Deposit Account No. 50-3231 in the amount of \$ 1,750.00 to cover the above fees. A duplicate copy of this sheet is enclosed. c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3231 . A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filled and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Customer No. 44992 Christine McCormack NAME L0065						Amount to be	\$		
b. X Please charge my Deposit Account No. 50-3231 in the amount of \$ 1,750.00 to cover the above fees. A duplicate copy of this sheet is enclosed. c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3231 . A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filled and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Customer No. 44992 Christine McCormack NAME L0065	a. A check in the amount of \$ to cover the above fees is enclosed								
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